Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/731,256	MACDONALD ET AL.	
Examiner	Art Unit	
Nathan W. Schlientz	1616	

The MAILING DATE of this communication	appears on the cover sheet with the correspondence address
THE REPLY FILED 05 December 2008 FAILS TO PLACE	THIS APPLICATION IN CONDITION FOR ALLOWANCE.
application, applicant must timely file one of the follo application in condition for allowance; (2) a Notice of	or on the same day as filing a Notice of Appeal. To avoid abandonment of this wing replies: (1) an amendment, affidavit, or other evidence, which places the fAppeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request 137 CFR 1.114. The reply must be filed within one of the following time
a) The period for reply expires 3 months from the mailin	d date of the final rejection
The period for reply expires on: (1) the mailing date of no event, however, will the statutory period for reply examiner Note: If box 1 is checked, check either box.	this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In xpire later than SIX MONTHS from the mailing date of the final rejection. (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO
MONTHS OF THE FINAL REJECTION. See MPEP 7	
have been filed is the date for purposes of determining the period under 37 CFR 1.17(a) is calculated from: (1) the expiration date of	odate on which the petition under 37 CFR 1.136(a) and the appropriate extension fee of extension and the corresponding amount of he fee. The appropriate extension fee of the shortened statutory period for reply originally set in the final Office action; or (2) as leater than three months after the mailing date of the final rejection, even if timely filed, (74(b)).
	compliance with 37 CFR 41.37 must be filed within two months of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any	rextension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since lied within the time period set forth in 37 CFR 41.37(a).
	tion, but prior to the date of filing a brief, will <u>not</u> be entered because
(a) They raise new issues that would require furth	
(b) They raise the issue of new matter (see NOTE	
(c) They are not deemed to place the application appeal; and/or	in better form for appeal by materially reducing or simplifying the issues for
(d) ☐ They present additional claims without cancel	ng a corresponding number of finally rejected claims.
NOTE: (See 37 CFR 1.116 and 41.3	3(a)).
	R 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
Applicant's reply has overcome the following rejection	
non-allowable claim(s).	be allowable if submitted in a separate, timely filed amendment canceling the
 For purposes of appeal, the proposed amendment(s how the new or amended claims would be rejected in The status of the claim(s) is (or will be) as follows: 	s): a)
Claim(s) allowed:	
Claim(s) objected to:	
Claim(s) rejected:	
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE	
	on, but before or on the date of filing a Notice of Appeal will not be entered
	od and sufficient reasons why the affidavit or other evidence is necessary and
	filing a Notice of Appeal, but prior to the date of filing a brief, will <u>not</u> be d to overcome all rejections under appeal and/or appellant fails to provide a
	essary and was not earlier presented. See 37 CFR 41.33(d)(1).
10. ☐ The affidavit or other evidence is entered. An expla REQUEST FOR RECONSIDERATION/OTHER	nation of the status of the claims after entry is below or attached.
	ed but does NOT place the application in condition for allowance because:
12. ☐ Note the attached Information Disclosure Statemen	nt(s), (PTO/SB/08) Paper No(s).
13. Other:	
Notice of References Cited attached	/John Pak/
	Primary Examiner, Art Unit 1616

Continuation of 11. does NOT place the application in condition for allowance because: As requested, a copy of Daraio et la. is supplied for Applicant's records.

Applicant's Remarks filed 05 December 2008 have been fully considered but they are not persuasive.

35 U.S.C. 112

Applicants argue on page 6 that one of ordinary skill in the art would reasonably conclude that a pH altering material could be an acid or a base. However, the instant specification does not state anywhere that pH altering materials include acids and bases. Therefore, there is not support for this in the claims.

35 U.S.C. 103

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are absed on combinations of references. See In re Keller, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); In re Merck & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Rejection of claims 28, 30, 31, 33-35, 37, 38, 40, 42-44, 46, 64 and 65 over Bosch et al., Breitbarth, and Ma et al., as evidenced by Daraio et al.

Applicants argue on page 7 that one of ordinary skill in the art would not look to the hair growth teaching of Breitbarth to construct Applicant's invention. However, the examiner respectfully argues that Breitbarth is cited to show the state of that at the time of the instant invention. Breitbarth teaches that administering drugs attached to the surface of particles that are then readily and controllably released as a function of pl five swell-known and extensively used at the time of the instant invention (col. 5, In. 11-19).

Applicants further argue on page 8 that the Nalco particles used by Bosch et al. comprise an alumina core, and not silica coated with alumina. However, the examiner respectfully argues that when Bosch et al. refer to the Nalco alumina core, they are referring to the particles without the active agent bound to the surface. Also, Bosch et al. specifically teaches the use of other silica coated alumina particles in Example 2 (Ludox CL are 12 nm alumina coated silica). Therefore, Bosch et al. teach the use of alumina coated silica particles for binding active agents.

Applicants also argue on page 9 that Ma et al. is directed to absorption of proteins and antibiotics on alumina membranes during filtration, and simply indicates that the amount adsorbed is dependent upon pI. Applicants claim a a functional compound bonded to the surface of nanoparticles and the release upon exposure to a pH change. However, the examiner respectfully points out that the instant claims do not differentiate the type of bonding between particles and the functional compound, and would indee adsorption. The examiner further argues that Ma et al. teach that changes in pH will affect the binding of tetracycline to alumina, wherein a change in pH of either arcide or basic change results in a release of tetracycline.

Rejection of claims 28, 30, 31, 33-35, 37, 38, 40, 42-44, 46, 64 and 65 over Tan et al. in view of Bosch et al., Breitbarth and Ma et al., as evidenced by Daraio et al.

Applicants argue on page 10 that Tan et al. do not dislose or suggest the claimed alumina-coated silica nanoparticles. However, the examiner respectfully argues that Tan et al. reasonably teach nanoparticles wherein silica is coated with another layer, wherein active agents are bound to the surface of the nanoparticles. Bosch et al. reasonably teaches nanoparticles comprising silica coated with alumina for attaching active agents. Breitbarth et al. teach the release of actives from nanoparticles as a result of a change in pH is extensively used, and Ma et al. teach that tetracycline is released from alumina as a result in actic or obsic changes in pH.